

# Weldon Spring, MO

## A case study of a NPL site using Institutional Controls

**Larry Erickson**

**Chief, Federal Facilities Section**

**Hazardous Waste Program**

**Missouri Department of Natural Resources**

**April 5, 2006**



# Project Goals

---

- Develop and implement Institutional Controls (ICs)
- Assure IC's are robust, durable, enforceable and reliable
- Assure that IC's and other components of Long-Term Stewardship are in place

# Site History

- TNT/DNT Plant (1940-1946)
- Uranium Feed Material Plant
- Placement on the NPL
  - Quarry 1987
  - Chemical Plant 1988

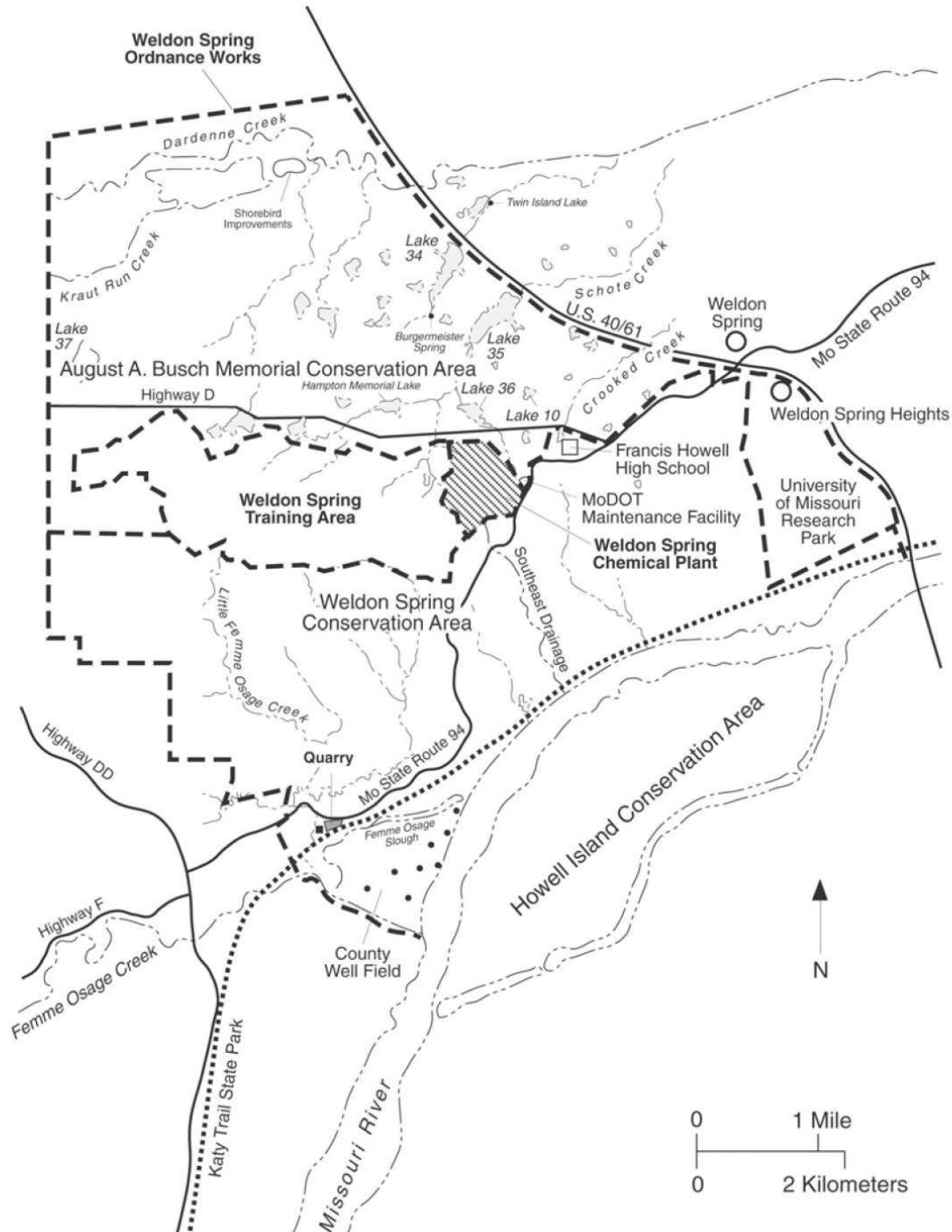
**Before (1960's)**



**After (2003)**



# Map of Site



# Stewardship/Institutional Controls

---

- Federally owned lands
- State owned lands
- Research of State Laws
- Title search



# Examples of IC Options at Weldon

- Proprietary controls
  - covenants
  - easements
- Enforcement and Permit tools
  - consent orders
  - permits
  - construction standards
- Informational tools
  - deed notices
  - interpretive centers
  - citizens groups
  - fact sheets
  - administrative records
- Governmental Controls
  - zoning

# Contents of the LTS&M Plan

---

- Surveillance and Maintenance Implementation
- Public Participation
- Routine Site Inspections
- Follow-up Inspections
- 5-Year Review
- Routine Site Maintenance and Operations
- Environmental Monitoring

# Contents of the LTS&M Plan (cont.)

---

- Regulatory Compliance Monitoring
- Emergencies, Contingency Planning, and Corrective Action
- Permit and Agreement Administration
- Budget and Funding
- Records and Data Management
- Quality Assurance
- Health and Safety

# Roles and Responsibilities

## Organization

• DOE →

• EPA →

• MDNR →

## Function

- Policy formation, provide resources and support, site LTS&M mgmt, maintain interpretive center and repository, etc.
- Lead regulatory agency, provide oversight, review docs relating to LTS&M
- Provide regulatory review including LTS&M docs

# Roles and Responsibilities (cont.)

## Organization

- Citizens → Commission

- County →

- Dept. of Health →

- Public →

## Function

- Public reps, provide review & input on LTS&M docs

- Local gov't. reps, compliance with county regs, preservation of deeds

- Public health issues

- Public mtg. input, review LTS&M docs

# Keys for Success

- Develop a shared vision and definition early in the process
- Develop monitoring and maintenance plans
- Confirm that the risk based decision is appropriate and protective



# Current Status

---

- Signed Post Remedial Federal Facility Agreement
- Acquisition of easements from off-site properties started
- Citizen Commission meetings
- Interpretive Center
- Stewardship Plan
- Annual/Five year reviews

# Additional Links on Weldon

---

- Department of Energy website:
  - [www.lm.doe.gov/land/sites/mo/weldon/weldon.htm](http://www.lm.doe.gov/land/sites/mo/weldon/weldon.htm)
- Department of Natural Resources website:
  - [www.mo.gov](http://www.mo.gov)

# Questions

---

**For more information e-mail Larry  
Erickson at:  
[larry.erickson@dnr.mo.gov](mailto:larry.erickson@dnr.mo.gov)**